

AMENDMENTS

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In the Drawings:

Please add the enclosed FIGS. 1 – 17. No new matter has been introduced by the drawings.

In the Abstract:

Please replace the abstract with the following paragraph:

41  
-- A light guide writes a Bragg grating in a transparent substrate by transferring the interference pattern between two light beams with the same wavelength and coherent with each other but with an angular offset. The interference pattern is transferred directly in the substrate in the form of a modulation of the refraction index of this substrate. At least one of the light beams is divided into at least two sub-beams offset in phase with respect to each other. --

In the Specification:

Please replace the paragraph beginning at page 4, line 12 with the following paragraph:

42  
The invention also applies to an apparatus for use of the process according to the invention, this apparatus being characterized in that it comprises:

- at least one phase plate capable of creating a phase shift between at least two sub-beams, due to a difference in the optical path, and
- a means of adjusting the position of the phase plate, this adjustment means having at least two degrees of freedom, one being angular degree of freedom provided for adjustment of the value of the phase shift, and the other being a translation degree of freedom provided for adjustment of the position of the phase shift in the light beam formed by the two sub-beams.